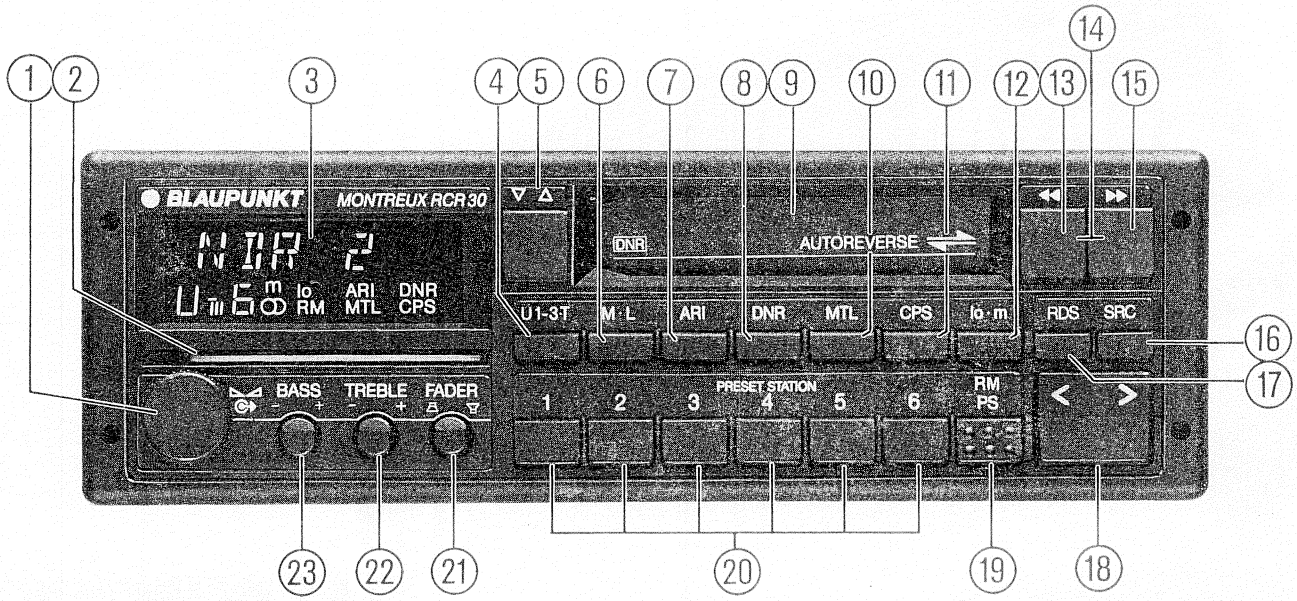
Bedienungsanleitung
Operation Instructions
Mode d'emploi
Istruzioni d'uso
Gebruiksaanwijzing
Bruksanvisning
Instrucciones de manejo
Instrução de serviço

Montreux RCR 30

BLAUPUNKT
Bosch Telecom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RM MTL CPS
U1-3T
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ARI
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CPS
lo·m
RDS
SRC
BASS
TREBLE
FADER
PRESET STATION
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RM
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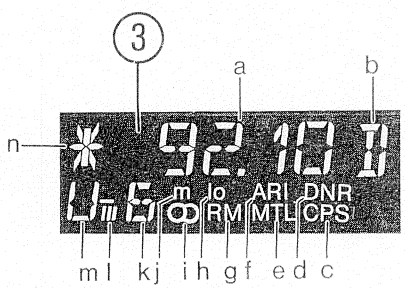
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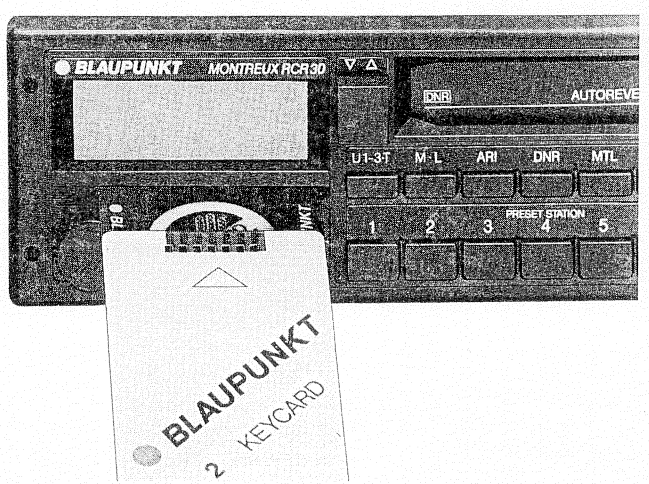
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MONTREUX RCR30
DNR
U1-3T
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ARI
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KEYCARD
2

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Important Information

When connecting the set, observe the instructions thoroughly so as not to damage the power amplifiers.
Never connect the speaker outputs **to ground.**
If you prefer to install or extend the equipment on your own, carefully observe the included installation and connection instructions.

DSC (**D**irect **S**oftware **C**ontrol)

This car radio is fitted with Direct Software Control for separately adjusting and memorizing the display ground colour, the station seek sensitivity and the volume of ARI traffic messages and of the audible alarm, respectively. The corresponding adjustments are described in full detail in the section "Operating Instructions".

QuickOut

This car radio can be equipped with a QuickOut handle.
QuickOut allows you to pull the radio out of the compartment and to take it along. The preset stations remain stored.

For further information contact your local dealer.

KeyCard

This car radio can be operated only with the proper KeyCard inserted. The code of this KeyCard is memorized by the radio's electronics.
Switch the set on by turning knob ①, then insert the KeyCard (fig. 3). The car radio is ready for operation.

When an incorrect KeyCard is inserted, "CARD ERR" is indicated on the display.

In such a case, carefully read the instructions given in the section on "Theft Protection".

Never pull out the KeyCard. First push in the KeyCard (moves into take-out position, then remove it).

If you should lose your personal KeyCard or if the card should be damaged, contact an authorized special service center for help. Take the radio passport with you.

These service centers are all listed in a Car Radio Center Register (□). Please contact the Central Service Center of your country for more detailed information on the specialized service center of your region.

FM reception in the car

In-car FM reception offers you the same advantages as your home equipment.
FM will give you the finest quality of music and speech reproduction.
However, FM reception conditions are more difficult in a moving car than in your home, where the aerial is stationary. When your car is in motion, signal strength is constantly fluctuating, although you may not notice this.
The reception concept Codem IV, developed by Blaupunkt minimizes the different reception interferences, such as varying station field strength, multipath reception and shadows. If the field strength is too weak (the reception conditions get worse), you should tune in to another FM station.
Optimum reception can be obtained only if the aerial is correctly mounted and in working order.

Radio Data System (RDS)

More and more radio stations in the FM range transmit in addition to the program information via the Radio Data System. If your radio is equipped with the corresponding features this can offer you considerable advantages.

Your car radio can make use of these additional data. The data transmitted by the stations serve to

- recognize and indicate the program and the name of the program (e.g. NDR1)
- to search automatically and to switch to a frequency offering better reception of the same program (Best station)
- recognize additionally ARI traffic information stations, complete the conventional ARI system
- activate the announcement pick-up (ARI priority) in cassette mode.

Quick Guide to Operation

This quick guide to operation consist of three parts:

Sound adjustment
Radio operation
Cassette operation

Twin functions are described separately. All **functions** which require more **information** are additionally described in the section **"Operating Instructions"**.

① **On/off/volume control**
Radio is switched on by turning this knob ("CARD" indicated in display)
When a KeyCard is not inserted within 10 seconds, the set is automatically switched off.
To switch the set on or off, just insert or remove the KeyCard.

② **KeyCard insertion**
Insert the KeyCard as indicated by the arrow.
Push the KeyCard all the way in (fig. 3). To remove again, simply press onto the card.

Sound adjustment

① **Balance control**
Adjusts the right/left speaker volume.
Push out the knob (self-locking).
Push the knob back in after adjustment.

⑧ **DNR™ button**
DNR stands for Dynamic Noise Reduction
This function allows to reduce the noise which may be possible during cassette and radio operation.
DNR is switched on when the display ③d indicates "DNR".
Press the button to activate and deactivate this function.

㉑ **Fader**
Adjusts the front/rear volume.
First press the knob to unlatch, then turn.
With two connected speakers, adjust the Fader to centre position. Press the knob again to latch.

㉒ **Treble control**
Press the rotary knob to unlatch.
↘ – increases treble.
↗ – reduces treble.
Press the knob again to latch.

㉓ **Bass control**
Press the rotary knob to unlatch.
↘ – increases bass
↗ – reduces bass
Press the knob again to latch.

Radio operation

③ **Display – for**
a) Frequency, station logo, code
b) ARI zone identification
c) CPS (cassette program search)
d) DNR (noise suppression)
e) MTL (tape type)
f) ARI
g) RM (radio reproduction during fast winding)
h) Station search tuning sensitivity
i) ∞ (stereo)
j) normal search tuning
k) 1-6 (station buttons)
l) I-III, T (FM memory banks)
m) UML (wavebands)
n) ✳ – indicates that "RDS" is activated, but no station received.

④ **U 1-3·T Button**
FM waveband switch (87,5 - 108 MHz) and selector switch for FM memory banks I-III and T.
A maximum of six FM stations can be memorized on each memory bank by means of the station preset pushbuttons ⑳. On the Travelstore bank "T" you may store the six strongest stations currently available.
Pressing the pushbutton ④ repetitively, changes the memoray banks between I, II, III and T; the display ③l indicates which memory bank is active.

⑥ **M·L-Button**
Waveband selector switch for receiving medium wave stations in the range of
AM 531 – 1602 kHz and
LW 153 – 279 kHz

⑦ **ARI Button**
Can be switched on in the FM range only.
Button depressed (ARI logo ③f lights up) – you will receive only radio traffic information stations broadcasting at 87,5 – 108 MHz.
Traffic messages are automatically received and the acoustic alarm function is in standby operation.
To switch the ARI function off, depress the ARI button once again.

⑫ **lo • m Button**
To select search tuning sensitivity, manual tuning, and stereo mono switch-over.
„lo" ③h lights up – normal station seek sensitivity
station seek stops at well-received stations only. Stereo programs are reproduced in stereo.
No indication ③h – highly-sensitive station seek station seeks stops at weaker stations (mono).

Due to differing local reception conditions, the station seek sensitivities can be programmed according to individual needs (please refer to "Change of Station Seek Sensitivity" for more details).

m – manual tuning (stereo)

⑯ **Button SRC (SOURCE)**
This button serves to switch over between the audio sources at cassette operation (cassette ⇆ radio).

⑰ **RDS button (Radio Data System)**
a) Press this button to activate/deactivate the RDS function. RDS is activated when a station logo (e.g. NDR2) or a "✳" in front of the frequency is shown in the display ③.
b) Press this button for approx. 2 sec. to activate/deactivate the regional function. "REG ON" in the display indicates that the regional function is activated, "REG OFF" in the display indicates that it is switched off.

⑱ **Station Seek Rocker Switch – Station Selection**

⑲ **RM/PS Button**
PS – (**P**reset Station **S**can)
To listen into the running programme of the memorized station presets of the selected waveband; in the case of the FM band, all three memory banks can be scanned.
Button depressed – station programmes are played for eight seconds each.
To stop this function, depress the button once again.
RM – **R**adio **M**onitor
Allows to listen to the radio during fast winding of cassette.

⑳ **Station Keys 1, 2, 3, 4, 5, 6 (Station Presets)**
To store a station – depress the button until the audio returns.
To recall a station, press the assigned station key.

Cassette Operation

③ **Display – for**
a) Frequency, station logo, code
b) ARI zone identification
c) CPS (cassette program search)
d) DNR (noise suppression)
e) MTL (tape type)
f) ARI
g) RM (radio reproduction during fast winding)
h) Station search tuning sensitivity
i) ∞ (stereo)
j) normal search tuning
k) 1-6 (station buttons)
l) I-III, T (FM memory banks)
m) UML (wavebands)
n) ✳ – indicates that "RDS" is activated, but the station received is not identified as RDS station

⑤ **Track Indicator**
Button depressed – tape deck starts playing back the other side of the cassette.
The display ③a indicates, which track is being played back.
TRACK 1 – side A or B is being played back.
TRACK 2 – side B or 2 is being played back.

⑨ **Cassette compartment**

⑩ **MTL button**
This button should be pressed for playing chrome dioxide (CrO_2) and metal cassettes.
Press button again for playing ferric oxide (Fe_2O_3) tapes.
Metal is activated, if "MTL" ③e lights up in the display.

⑪ **Button CPS**
For skipping or replaying cassette music tracks.

⑬ **Button ◄◄ (fast rewind)**
Press button – fast rewind operation.
Stop by pressing button ►►.
At the end of the tape, the set switches over to playback.

⑭ **Button ⏏ – Cassette Eject**

⑮ **Button ►► (fast forward)**
Press button – fast forward operation.
Stop by pressing button ◄◄.
At the end of the tape, the set switches automatically to the other track.

⑲ **RM/PS Button**
Radio **M**onitor – enables for radio operation during FF/FR.

Operating Instructions

ON/OFF ①
Turn knob

Radio switched on by turning this knob "CARD" indicated in display.
When a KeyCard is not inserted within 10 seconds, the set is automatically switched off.
To switch the set on, just insert the KeyCard.
When an incorrect KeyCard is inserted, "CARD ERR" is indicated on the display.

In such a case, carefully read the instructions given in the section on "Theft Protection".

To switch the set off, press onto the KeyCard and remove it.
After that, "LEARNING" is displayed for approximately 10 sec. before the set is finally switches off automatically.

Sound Adjustment

Volume ①

Treble ㉒

Pop-out rotary adjusting knob. Depress to unlatch.

Bass ㉓

Pop-out rotary adjusting knob. Depress to unlatch.

Balance control ①

Pull-out adjusting knob for setting left/right speaker volume.

After adjusting, press the knob back into position.

Fader ㉑

Pop-out rotary adjusting knob for setting front/rear speaker volume.

Depress to unlatch.

When four speakers are connected, maximum volume is obtained with the adjusting knob set to the centre position.

When two speakers are connected, set the fader control to centre position.

Radio reception

In the FM mode we recommend to make generally use of the RDS service.

As soon as station programs can be identified, the station logo and perhaps the regional identification, e.g. NDR1 NDS (Niedersachsen) are in the display.

The frequency memory buttons with RDS become program buttons.

Now you know exactly to which program your set is tuned in and thus you can choose precisely the desired program. The "Best Station function" guarantees that you are always tuned in to the station which emits your desired program in the best quality.

Similar to units with search tuning, radio reproduction is muted shortly (sometimes inaudibly) during the search run when the program offering the best reception has been found.

- Use the button ⑰ to activate/deactivate "RDS".
  With RDS being switched on, a station logo or " " lights up before the frequency ③ if the received station has not been recognized as an RDS station.

Waveband Selection

- Press the button ④ or ⑥ to select the waveband.

Station Selection

... using the station seek rocker switch

Start the station seek by

- depressing the station seek rocker switch ⑱ until the desired station is tuned in.
  Hold the rocker switch for more rapid tuning.

... using the program/station presets and the memory banks

This can be achieved only, when stations have been assigned to the station preset buttons as described in section "Station storing".

- If you want to call up FM stations, depress the U 1-3·T ④ button repetitively, until the desired memory bank I, II or III ③I shows on the display.
- Press the appropriate station key.

... using Preset-Scan (PS) ⑲

To automatically scan and listen into the memorized station programmes of the selected waveband (in the FM mode on all memory banks I, II, III and T).

This can be achieved only, when stations have been assigned to the station preset buttons as described in section "Station storing".

- Press the "RM/PS" button temporarily and the sets tunes into the next memorized station and so on.

Empty station preset keys will be skipped. The Preset-Scan function can be activated in all wavebands. When you have found your favourite programme:

- Press the "RM/PS" button again to deactivate the PS function.

Station storing

Separate station storing is possible with KeyCard 1 + 2.

Once the KeyCard has been inserted, its corresponding station presets can be called up.

... using automatic station seek tuning

In the FM mode, 3x6 stations can be memorized on three memory banks, each of which can be selected via the U 1-3·T button.

In the AM mode, as much as 6 stations can be stored.

In additional to that the Travelstore function makes it possible to automatically memorize the six strongest FM stations of a particular region.

When needed, the programme or the station can be called up again via the pushbutton. To memorize a station procede as follows:

- If you want to memorize a FM station, select the memory bank by depressing the U 1-3·T ④ button.
  The display ③n then indicates either I, II, III or "T".

To store

- depress e station key ⑳ until the audio, which will be disconnected during the storage, returns (after 2 secs. approximately) to indicate that the station has been memorized.

The display ③k shows, which station key was pressed.

Go through this procedure again if you want to store further stations under the other station keys as well in all wavebands and on three FM memory banks. Whenever the sta-

tion seek stops at a station which has already been memorized, then the corresponding station key will be indicated in the display ③k for about 5 sec. together with the memory bank, but the latter only if it is an FM station.

... using manual station seek tuning

If you want to store a station without yet being within that station's range:

- Press the lo • m button ⑫ until the display ③j indicates "m".
  "m" stands for manual and signifies manual station seek tuning in this context.

To memorize an FM frequency

- Select the appropriate memory bank via the U 1-3-T ④ button.
- Press the station seek rocker switch to tune to the desired frequency.

To store the frequency:

- Press the corresponding station preset button (until the audio, which will be disconnected during storage, returns).

Having stored a station with the manual station seek tuning function:

- Switch back to the station seek mode using the lo • m ⑫ switch.

Moreover, the set features last station memory (local and distant) in either waveband.

... using Travel Store

With the Travel Store function, you can store six strongest FM station frequencies sorted according to their field strength of a particular region you may be traveling in.
This function should preferrably be used during long-distance travels.

To activate station storing:

- Press the U 1-3-T ④ button for 2 secs. approximately.

The audio will be disconnected during station storage.

Reception of regional stations (FM)

Sometimes certain broadcasting stations emit regional programs. The first channel of the NDR (German broadcasting station) for instance transmits at certain times of the day regional programs for the northern Lands Schleswig-Holstein, Hamburg and Niedersachsen of different contents.

If you are tuned in to a regional station and you wish to continue listening to this regional program,

- press button RDS ⑰ for more than 2 sec. until "REG ON" is shown in the display. The regional function is switched on.
  By pressing the button once again for 2 sec. the function can be switched off again.
  With the regional function activated, "REG ON" is displayed for a moment each time the unit is switched on.

Switching off the Best Station function

You can switch off the "Best Station function", in order to avoid that during RDS operation the unit keeps searching for frequencies on which the same program is emitted in even better quality.
This should be considered, if the short muting during the search run is found to be disturbing, for instance on your way to work or when you are in the fringe area of a broadcasting station, knowing that you cannot receive the program in a better quality.

If you wish to switch off the "Best Station",

- switch over to "m" with the button lo • m ⑫. Press this button until "m" is shown in the display ③j.

The Mono Switch

The radio set is fitted with a Blaupunkt FM tuner (Codem IV), which provides for mostly interference-free reception on the road.
In particualr areas with insufficient station field strength and/or multipath reception due to reflections, the radio set gradually switches over from stereo to mono mode. This improves the on-the-road reception quality considerably.

To avoid stereo noise common in very critical reception areas, we recommend to switch to "m" using the button lo • m ⑫. The stereo indicator ③ goes off.

Station Seek Sensitivity Adjustment

a) with the lo • m ⑫ buttton.
   The display ③h shows, which sensitivity mode is active.
   lo – normal seek tuning sensitivity (local)
   no indication – high seek tuning sensitivity (distant)

b) with the software
   When the station density is extremely high or low, it can be useful to adjust the two sensitivity levels separately.

- Select the sensitivity level to be changed.
- Actuate the lo • m ⑫ key for approximately eight seconds, until "L" is displayed together with a numeral 01, 02 or 03 where 01 stands for ≙ high sensitivity and 03 for ≙ low sensitivity.
- Use the station seek rocker switch ⑱ (← down; → up) to select the desired sensitivity.

To store the setting:

- Actuate the lo • m ⑫ key.

Cassette Playback

For cassette playback

- load the cassette side A or 1 facing up into the cassette slot; never force the cassette into the slot.

The cassette is moved automatically into the replay position. The tape will be played in the direction that was used last.

The corresponding track indicator will light up.
TRACK 1 - side A or 1
TRACK 2 - side B or 2.
At the end of the tape, the set switches over to the other side of the cassette (autoreverse).
To remove an inserted cassette:
● Press key ◄◄ and ►► ⑭ simultaneously.

Auto-Metal Detection

Use the MTL button ⑩ for tape type selection. This button should be pressed for playing chrome dioxide (CrO_2) and metal cassettes. Press button again for playing ferric oxide (Fe_2O_3) tapes.
Metal is activated, if "MTL" ③e lights up in the display.

Autoreverse ⑤

This set is fitted with a high quality autoreverse cassette player.
After insertion of the cassette, the tape will be played in the direction that was used last.
The display shows either TRACK 1 for side A/1 or TRACK 2 side B/2.

At the end of the tape, the set switches over to the other side of the cassettes (autoreverse).

The direction can be changed any time. To change over to the other side of the cassette
● press the key ▽△ ⑤.

Attention!
Stiff-going cassettes may change over uncontrolled from one track to the other. If this happens, please inspect the tape winding and if necessary, rewind the cassette.

Selecting titles with CPS ⑪

CPS means: **C**assette **P**rogram **S**earch. This function enables you to skip or replay individual music tracks.

● Press the CPS button ⑪. The logo CPS lights up in the display ③c.

If you wish to skip a particular music track, or say, to wind the tape on quickly to the beginning of the next music track, you should
● press the fast forward button ►►.

If you wish to replay the music track which you have just heard, or say, to rewind the tape quickly to the beginning of this music track, you should
● press the fast rewind button ◄ ◄.

You can cause a music track to be replayed up to 8 seconds after the start of the subsequent track. As soon as fast forward or fast rewind has ceased, the next or, as the case may be, the last track heard is then played.

The CPS system functions only when there is a pause between music tracks of at least 3 seconds.

By pressing the CPS ⑪ button again, you stop the CPS function. In the display ③c the logo CPS goes off.

Switching between audio sources

using the button **SRC** (**SOURCE**) ⑯

This button serves to switch over between cassette and radio operation even if the cassette remains inserted.

If you switch over to radio operation, the cassette tape is stopped. The tape head and the pinch roller retract in order to protect the cassette and cassette mechanism (stand-by operation).

ARI Traffic Messages

Certain FM stations broadcast regular local traffic messages. Besides various other advantages, the ARI system makes finding these stations a lot easier. Traffic information broadcasting stations can be identified from the zone identifier ③b. The frequencies of regional ARI traffic information stations are indicated on the blue motorway signs.

To activate ARI

When the ARI function has been activated, all other non-ARI stations will be muted. If you wish to listen to ARI stations only:
● press the ARI key ⑦.
The display ③f will show ARI if ARI is active.
If you are not tuned in to an ARI station at this moment, the audible alarm comes on.
● In such a case, please actuate the station seek rocker switch ⑱ to move to the next ARI station whose zone identifier will then be displayed ③b and the display colour changes.

To disconnect the ARI function:
● Press the ARI key ⑦ once again.

Audible Alarm

When you leave the range of an ARI station and the reception quality becomes inadequate, the zone identifier ③b in the display goes out and the acoustic ARI-alarm is activated after approximately 30 secs. When this happens, please either tune to another ARI station or deactivate the ARI function by actuating the ARI key ⑦ once again. The acoustic alarm then stops immediately.

Attention!
The audible alarm comes on if you press a station preset button to which an ARI station has not been assigned to. When this happens, please either tune to another ARI station or deactivate the ARI function by actuating the ARI key ⑦ once again.

Setting the volume of the Acoustic Alarm and of the ARI Traffic Messages

Should you wish to listen to traffic messages only, it is possible to reduce the volume of any other programme either slightly or totally whilst continuing to be able to listen to traffic messages. When a traffic message is on the air, it will automatically be broadcast at the initially selected volume, *even though you might*

have adjusted the set to a lower volume or are listening to a cassette.
You can adjust the volume of ARI traffic messages to your personal requirements (e. g. if you have fitted a booster of your car is very noisy or very quiet).

- Press the ARI key ⑦ in radio mode for approximately 8 secs. until the display shows "L" together with a numeral between 01 and 10. The running programme can now be heard at the corresponding volume level.
- Use the station seek rocker switch ⑱ (← softer; → louder) to adjust the required minimum volume for traffic messages and for the acoustic alarm.

To save this setting in the memory:
- Press the ARI key ⑦ temporarily.

ARI during Cassette Operation

This radio set enables you to listen to a cassette while maintaining reception of traffic messages. When a traffic message is on the air, it automatically overrides cassette playback.
For this purpose:

- Activate the ARI function with the ARI key ⑦.
  The display then shows ARI ③f.
- Tune in to an ARI station in your region.
- Insert the cassette into the cassette slot. Now you can listen to cassette playback, which will be interrupted in the case of traffic meassage.

Automatic Station Seek Start

- When you leave the range of an ARI station during cassette operation or with the radio volume set to low volume (volume set to left-hand stop) and the reception quality becomes inadequate, then the radio set automatically tunes in to the next ARI station.

Theft Protection

This car radio can be operated only with the proper KeyCard inserted. The code of this KeyCard is memorized by the radio's electronics. When an incorrect KeyCard is inserted, four dashes "----" are indicated on the display..

The radio set is practically blocked. After another 10 secs. "CARD ERR" appears in the display. Remove the incorrect KeyCard and insert the proper one. The car radio is ready for operation.

If four dashes are displayed again, wait another 10 secs.

After the fourth erraneous input, the waiting time involved extends to 1 hour. Another 16 futile attemps to make the radio play requires decoding by authorized service centers. For this, however, presentation of the radio passport is a must. Disconnecting the radio set during an actual waiting time starts a new waiting time cycle.

Selecting the Display Colour

The display colour can be changed from green to red to adapt to specific car lighting situations.

To change the display colour:

- Switch the radio off.
- Press and hold the right-hand side of the station seek rocker switch and
- Switch the radio on.

Care of cassettes and unit

Handle your cassettes and unit carefully. We recommend to use C 60/C 90 cassettes.
You may expect less wear and tear of the cassette mechanism and better operation behaviour from a cassette produced by a leading manufacturer.
Metal, ferrous oxide, chromium dioxyde, and ferrichrome cassettes can be used.

Protect your cassettes against dirt and dust by keeping them in suitable containers.
Heat exceeding 50°C, e.g. when exposed to direct sunlight, may damage your cassettes.
At temperatures below 0°C, do not start playback of your cassettes before they have warmed up sufficiently.
This helps to avoid irregular tape transport.
Constant wear of the tape soils the cassette mechanism. Therefore, the head, the rubber pressure rolls, and the capstan shaft are to be cleaned so that a trouble-free reproduction and function of the cassette unit is ensured.
These parts should be cleaned with a **cotton pad dipped in alcohol.** Never use hard tools for cleaning. After a lengthy period of operation, the unit should be checked and thoroughly cleaned by a qualified person.
This maintenance work is not part of the service covered by our guarantee conditions.

Technical Data

Output power:
4 x 6,5 W acc. to DIN 45 324/3.1 with 4 Ω

FM:

Sensitivity:	0,9 µV at 26 dB signal-to-noise-ratio
Frequency response:	35 – 16 000 Hz - 3 dB (constant)
Selectivity:	> 80 dB at ± 300 kHz > 40 dB at ± 200 kHz
Cross talk attenuation:	> 30 dB bei 1 kHz

Cassette:

Frequency response:	30 – 18 000 Hz - 3 dB
Wow/Flutter:	0,25 % typ.
Signal-to-noise-ratio:	56 dB typ.

What to do if your radio needs to be serviced

Whenever your radio fails to operate and needs to be repaired by an authorized service center, please do not forget to bring the radio passport and the KeyCards along with you.